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=> s kiso, yoshinobu?/au  
L1 86 KISO, YOSHINOBU?/AU

=> s l1 not py>1998  
L2 55 L1 NOT PY>1998

=> d l2 1-55

L2 ANSWER 1 OF 55 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 1997:349220 BIOSIS  
DN PREV199799648423  
TI Substituted 3-(phenylsulfonyl)-1-phenylimidazolidine-2,4-dione  
derivatives  
as novel nonpeptide inhibitors of human heart chymase.  
AU Niwata, Shinjiro; Fukami, Harukazu (1); Sumida, Motoo; Ito, Akiko;  
Kakutani, Saki; Saitoh, Masayuki; Suzuki, Kenji; Imoto, Masahiro;  
Shibata,  
Hiroshi; Imajo, Seichi; Kiso, Yoshinobu; Tanaka, Takaharu;  
Nakazato, Hiroshi; Ishihara, Takafumi; Takai, Shinji; Yamamoto, Daisuke;  
Shiota, Naotaka; Miyazaki, Mizuo; Okunishi, Hideki; Kinoshita, Akio;  
Urata, Hidenori; Arakawa, Kikuo  
CS (1) Inst. Biomed. Res., Suntory Ltd., 1-1-1 Wakayamadai, Shimamoto-cho,  
Mishima-gun, Osaka 618 Japan  
SO Journal of Medicinal Chemistry, (1997) Vol. 40, No. 14, pp. 2156-2163.  
ISSN: 0022-2623.  
DT Article  
LA English

L2 ANSWER 2 OF 55 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 1996:81399 BIOSIS  
DN PREV199698653534  
TI Camelliatannin D, a new inhibitor of bone resorption, from Camellia  
japonica.  
AU Hatano, Tsutomu; Han, Li; Taniguchi, Shoko; Okuda, Takuo; Kiso,  
Yoshinobu; Tanaka, Takaharu; Yoshida, Takashi (1)  
CS (1) Faculty Pharmaceutical Sciences, Okayama Univ., Tsushima, Okayama 700  
Japan  
SO Chemical & Pharmaceutical Bulletin (Tokyo), (1995) Vol. 43, No. 11, pp.  
2033-2035.  
ISSN: 0009-2353.  
DT Article

LA English

L2 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1999:24058 CAPLUS

DN 130:124343

TI Eicosatrienoic acid for inhibiting intestinal ulcer in rats

AU Yoshida, Hiroshi; Chen, Kai; Santo, Kinya; Wasa, Katsushi; Takagi, Yoji;  
Okada, Masasni; **Kiso, Yoshinobu**

CS Department of Pediatric Surgery, Osaka University, Japan

SO Shoka to Kyushu (1998), 21(1), 27

CODEN: SHKYEZ; ISSN: 0389-3626

FB Nippon Shoka Kyushu Gakkai

DT Journal

LA Japanese

L2 ANSWER 4 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1998:793594 CAPLUS

DN 130:191263

TI Liver protective and antioxidative roles of sesamin

AU **Kiso, Yoshinobu**

CS Basic Research Laboratory, Suntory Ltd., Japan

SO Food Style 21 (1998), 2(12), 35-38

CODEN: FSTYFF

FB Shokuhin Kagaku Shinbunsha

DT Journal; General Review

LA Japanese

L2 ANSWER 5 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1998:712458 CAPLUS

DN 129:302077

TI Antiobesity foods and beverages containing xylooligosaccharides

IN Iino, Taeko; Nakahara, Koichi; Nishijima, Yasushi; Kusumoto, Akira;

**Kiso, Yoshinobu**

PA Suntory, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JEXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10290681	A2	19981104	JP 1997-101916	19970418

L2 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:435009 CAPLUS

DN 127:44462

TI Substituted 3-(Phenylsulfonyl)-1-phenylimidazolidine-2,4-dione  
Derivatives

as Novel Nonpeptide Inhibitors of Human Heart Chymase

AU Niwata, Shinjiro; Fukami, Harukazu; Sumida, Motoo; Ito, Akiko; Kakutani,  
Saki; Saitoh, Masayuki; Suzuki, Kenji; Imoto, Masahiro; Shibata, Hiroshi;  
Imajo, Seiichi; **Kiso, Yoshinobu**; Tanaka, Takaharu; Nakazato,  
Hiroshi; Ishihara, Takafumi; Takai, Shinji; Yamamoto, Daisuke; Shiota,  
Naotaka; Miyazaki, Mizuo; Okunishi, Hideki; Kinoshita, Akio; Urata,  
Hidenori; Arakawa, Kikuo

CS Institute for Biomedical Research, Suntory Ltd., Osaka, 618, Japan

SO J. Med. Chem. (1997), 40(14), 2156-2163

CODEN: JMCMAR; ISSN: 0022-2623

FB American Chemical Society

DT Journal

LA English

L2 ANSWER 7 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:310789 CAPLUS

DN 126:293363

TI Preparation of 2-phenylsulfonyl- and 2-(heterocyclylsulfonyl)quinazoline derivatives as chymase inhibitors

IN Fukami, Harukazu; Ito, Akiko; Niwata, Shinjiro; Kakutani, Saki; Sumida, Motoo; **Kiso, Yoshinobu**

PA Suntory Limited, Japan; Fukami, Harukazu; Ito, Akiko; Niwata, Shinjiro; Kakutani, Saki; Sumida, Motoo; Kiso, Yoshinobu

SO PCT Int. Appl., 120 pp.

CODEN: PIXKD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9711941	A1	19970403	WO 1996-JP2830	19960927
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	EP 795548	A1	19970917	EP 1996-932039	19960927
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL,				
	PT, SE				
	US 5814631	A	19980929	US 1997-849114	19970528
PPAI	JP 1995-285437		19950928		
	JP 1996-116557		19960510		
	WO 1996-JP2830		19960927		
OS	MARPAT 126:293363				

L2 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:189919 CAPLUS

DN 126:212145

TI Preparation of hydantoin derivatives as cardiovascular agents

IN Fukami, Jiichi; Tsunoda, Motoo; Niwada, Shinjiro; Okada, Akiko; Sumiya, Saki; Saito, Masayuki; Suzuki, Kenji; **Kiso, Yoshinobu**

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09031061	A2	19970204	JP 1995-216437	19950724
OS	MARPAT 126:212145				

L2 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1996:67493 CAPLUS

DN 124:135711

TI Preventive and therapeutic agents for bone diseases containing gypsogenin compounds

IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Yoichi

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07291856	A2	19951107	JP 1994-124755	19940427
OS	MARPAT 124:135711				

L2 ANSWER 10 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:67492 CAPLUS  
 DN 124:165276  
 TI Preventive and therapeutic agents for bone diseases containing glycyrrhetic acid compounds  
 IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi  
 PA Suntory Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07291857	A2	19951107	JP 1994-124755	19940427

L2 ANSWER 11 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:967017 CAPLUS  
 DN 124:21761  
 TI Camelliatannin D, a new inhibitor of bone resorption, from Camellia japonica  
 AU Hatano, Tsutomu; Ha, Li; Taniguchi, Shoko; Okuda, Takuo; **Kiso, Yoshinobu**; Tanaka, Takaharu; Yoshida, Takashi  
 CS Fac. Pharmaceutical Sci., Okayama Univ., Okayama, 700, Japan  
 SO Chem. Pharm. Bull. (1995), 43(11), 2033-5  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English

L2 ANSWER 12 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:621765 CAPLUS  
 DN 123:17883  
 TI preparation of dipeptide derivatives for prevention or treatment of bone diseases  
 IN Saito, Masayuki; Niwada, Shinjiro; Tei, Kokusai; **Kiso, Yoshinobu**  
 PA Suntory Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JYXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07089986	A2	19950404	JP 1993-273241	19930927
OS	MARPAT 123:17883				

L2 ANSWER 13 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:408770 CAPLUS  
 DN 122:170160  
 TI Hederagenins for prevention and treatment of bone diseases  
 IN **Kiso, Yoshinobu**; Kodama, Tooru; Nakahara, Koichi; Myagawa, Katsuro  
 PA Suntory Ltd, Japan

SC Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06345550	A2	19941220	JP 1993-178441	19930614

L2 ANSWER 14 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:392419 CAPLUS

DN 122:170179

TI Naphthalenes for prevention and treatment of bone diseases

IN **Kiso, Yoshinobu**; Kodama, Teoru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd, Japan

SC Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06340528	A2	19941213	JP 1993-163735	19930528

L2 ANSWER 15 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:346839 CAPLUS

DN 122:105410

TI Preparation of caffeic acid amide derivatives as 12-lipoxygenase inhibitors

IN Matsuki, Shinsuke; **Kiso, Yoshinobu**; Cho, Hidetsura; Tamaoka, Mie; Murota, Seiitsu; Morita, Ikuo

PA Suntory Ltd, Japan

SC Jpn. Kokai Tokkyo Koho, 40 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06247850	A2	19940906	JP 1993-57991	19930224
OS	MARPAT 122:105410				

L2 ANSWER 16 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:108086 CAPLUS

DN 122:123132

TI Polyphenols for prevention and treatment of osteoporosis or other bone disease

IN **Kiso, Yoshinobu**; Kodama, Teoru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd., Japan

SC Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06183958	A2	19940705	JP 1992-353909	19921216

L2 ANSWER 17 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1994:056335 CAPLUS

DN 121:256335

TI Preparation of dipeptide derivatives for treating bone diseases.

IN Higuchi, Naoki; Saiton, Masayuki; Niwata, Shinjiro; Kiso, Yoshinobu; Hayashi, Yasuhiro

PA Suntory, Ltd., Japan

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 578378	A1	19940119	EP 1993-109551	19930615
	EP 578978	B1	19970115		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE	JP 05345754	A2	19931227	JP 1992-155115	19920615
	AT 147755	E	19970215	AT 1993-109551	19930615
	US 5399743	A	19950321	US 1993-121461	19930916
PRAI	JP 1992-155115		19920615		
	US 1993-69371		19930601		
OS	CASPEACT 121:256335; MARPAT 121:256335				

L2 ANSWER 18 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1994:638403 CAPLUS

DN 121:238403

TI extraction of polyphenols from plants for prevention or treatment of bone diseases.

IN Kiso, Yoshinobu; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06183985	A2	19940705	JP 1992-353908	19921216

L2 ANSWER 19 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1993:671732 CAPLUS

DN 119:271732

TI Preparation of dipeptide derivatives for treatment of bone disease

IN Higuchi, Naoki; Saitoh, Masayuki; Niwata, Shinjiro; Kiso, Yoshinobu; Hayashi, Yasuhiro

PA Suntory, Ltd., Japan

SO Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 543310	A2	19930526	EP 1992-119558	19921116
	EP 543310	A3	19930721		
	EP 543310	B1	19960327		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				

SE

JP 05140063 A2 19930608 JP 1991-303351 19911119  
 US 5195824 A 19960307 US 1992 969453 19921030  
 AT 136025 E 19960415 AT 1992-119558 19921110  
 PPAI JP 1991-303351 19911119  
 OS MARPAT 119:271732

L2 ANSWER 20 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:72959 CAPLUS  
 DN 118:72959  
 TI Assay methods for antihepatotoxic activity  
 AU **Kiso, Yoshinobu**; Hikino, Hiroshi  
 CS Suntory Inst. Biomed. Res., Osaka, 618, Japan  
 SO Methods Plant Biochem. (1991), 6(Assays Bioact.), 219-33  
 CODEN: MPBIEY; ISSN: 1059-7522  
 DT Journal; General Review  
 LA English

L2 ANSWER 21 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:658229 CAPLUS  
 DN 117:258229  
 TI Prophylactic and therapeutic agents for bone diseases comprising di- or tripeptide derivatives as active ingredients  
 IN **Kiso, Yoshinobu**; Hayashi, Yasuhiro; Higuchi, Naoki; Saitoh, Masayuki; Hashimoto, Masaki  
 PA Suntory, Ltd., Japan  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 504938	A2	19920923	EP 1992-104920	19920320
	EP 504938	A3	19930414		
	E: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
	JP 05155764	A2	19930622	JP 1991-59182	19910322
	JP 05178758	A2	19930720	JP 1991-59185	19910322
PPAI	JP 1991-59182		19910322		
	JP 1991-59185		19910322		
OS	MARPAT 117:258229				

L2 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:143873 CAPLUS  
 DN 116:143873  
 TI Preparation of thiazolidines and glycation inhibitors containing them  
 IN Sumoto, Funihiro; Miyano, Seiji; Tatsuoka, Toshio; **Kiso, Yoshinobu**  
 PA Suntory, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JPXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03261772	A2	19911121	JP 1990-59490	19900309
OS	MARPAT 116:143873				

L2 ANSWER 23 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:185122 CAPLUS  
 DN 114:185122



TI Novel caffeic acid derivatives: extremely potent inhibitors of  
 12 lipoxygenase  
 AU Cho, Hidetsura; Ueda, Masaru; Tamaoka, Mie; Hamaguchi, Mikiko; Aisaka,  
 Kazuo; **Kiso, Yoshinobu**; Inoue, Teruyoshi; Ogino, Ryoko;  
 Tatsuoka, Toshio; et al.  
 CS Suntory Inst. Biomed. Res., Osaka, 618, Japan  
 SO J. Med. Chem. (1991), 34(4), 1503-5  
 CODEN: JMCMBR; ISSN: 0022-2623  
 DT Journal  
 LA English  
 QS CASREACT 114:185122

L2 ANSWER 24 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1988:215711 CAPLUS  
 DN 108:215711  
 TI Validity of Oriental medicines. Part 121. Liver-protecting drugs. Part  
 36.  
 Assay method for antihepatotoxic activity using macrophage-mediated  
 cytotoxicity in primary cultured hepatocytes  
 AU **Kiso, Yoshinobu**; Kato, Shinsuke; Kawakami, Yutaka; Hikino,  
 Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Phytother. Res. (1987), 1(2), 61-4  
 CODEN: PHYREH  
 DT Journal  
 LA English

L2 ANSWER 25 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1987:570017 CAPLUS  
 DN 107:170017  
 TI Assay method for antihepatotoxic activity using complement-mediated  
 cytotoxicity in primary cultured hepatocytes  
 AU **Kiso, Yoshinobu**; Kawakami, Yutaka; Kikuchi, Kumiko; Hikino,  
 Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Planta Med. (1987), 53(3), 241-7  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 26 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1987:114832 CAPLUS  
 DN 106:114832  
 TI Antihepatotoxic drugs. Part 32. Antihepatotoxic principles of *Wedelia*  
*chinensis* herbs  
 AU Yang, Ling Ling; Yen, Kun Ying; Konno, Chohachi; Oshima, Yoshiteru;  
**Kiso, Yoshinobu**; Hikino, Hiroshi  
 CS Taipei Med. Coll., Taipei, Taiwan  
 SO Planta Med. (1986), (6), 499-500  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 27 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1987:12713 CAPLUS  
 DN 106:12713  
 TI Coumestans as the main active principles of the liver drugs *Eclipta alba*  
 and *Wedelia calendulacea*  
 AU Wagner, Hildebert; Geyer, Bettina; **Kiso, Yoshinobu**; Hikino,  
 Hiroshi; Rao, Govind S.

CS Inst. Pharm. Biol., Univ. Muenchen, Munich, D-8000/2, Fed. Rep. Ger.  
SO Planta Med. (1986), (5), 370-4  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 28 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:546180 CAPLUS  
DN 105:146180  
TI Oriental medicines. Part 108. Liver protective drugs. Part 29.  
Antihepatotoxic actions of Allium sativum bulbs  
AU Hikino, Hiroshi; Tohkin, Masahiro; **Kiso, Yoshinobu**; Namiki,  
Tsuneo; Nishimura, Shoji; Takeyama, Kimori  
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SO Planta Med. (1986), (3), 163-8  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 29 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:454578 CAPLUS  
DN 105:54578  
TI Liver-protective drugs. Part 30. Drugs for liver therapy. Part 12.  
Isobutrin and butrin, the antihepatotoxic principles of Butea monosperma  
flowers  
AU Wagner, Hildebert; Geyer, Bettina; Fiebig, Manfred; **Kiso,**  
**Yoshinobu**; Hikino, Hiroshi  
CS Inst. Pharm. Biol., Univ. Munich, Munich, D-8000/2, Fed. Rep. Ger.  
SO Planta Med. (1986), (2), 77-9  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 30 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:81514 CAPLUS  
DN 104:81514  
TI Antihepatotoxic actions of gingerols and diarylheptanoids  
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kato, Nobuharu; Hamada,  
Yasumasa; Shioiri, Takayuki; Aiyama, Ritsuo; Itokawa, Hideji; Kiuchi,  
Fumiyuki; Sankawa, Ushio  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO J. Ethnopharmacol. (1985), 14(1), 31-9  
CODEN: JOETD7; ISSN: 0378-8741  
DT Journal  
LA English

L2 ANSWER 31 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:62041 CAPLUS  
DN 104:62041  
TI Assay method for antihepatotoxic activity using ionophore A23187 induced  
cytotoxicity in primary cultured hepatocytes  
AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SO Shoyakugaku Zasshi (1985), 39(3), 218-22  
CODEN: SHZAA7; ISSN: 0037-4377  
DT Journal  
LA English

L2 ANSWER 32 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:62032 CAPLUS

DN 104:62032  
 TI Validity of oriental medicines. Part 84. Tohoku University series on liver-protective drugs. Part 4. Okayama University series on the effects of the interaction of tannins with coexisting substances. Part 4. Antihepatotoxic actions of tannins  
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Hatano, Tsutomu; Yoshida, Takashi; Okuda, Takuo  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO J. Ethnopharmacol. (1985), 14(1), 19-29  
 CODEN: JOETD7; ISSN: 0378-8741  
 DT Journal  
 LA English

L2 ANSWER 33 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1986:28822 CAPLUS  
 DN 104:28822  
 TI Antihepatotoxic principles of Phyllanthus niruri herbs  
 AU Syamasundar, Kodakandla Venkata; Singh, Bikram; Thakur, Raghunath Singh; Husain, Akhtar; **Kiso, Yoshinobu**; Hikino, Hiroshi  
 CS Cent. Inst. Med. Aromat. Plants, Lucknow, India  
 SO J. Ethnopharmacol. (1985), 14(1), 41-4  
 CODEN: JOETD7; ISSN: 0378-8741  
 DT Journal  
 LA English

L2 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:606499 CAPLUS  
 DN 103:206499  
 TI Oriental medicines. Part 97. Liver protective drugs. Part 28. Mechanism of antihepatotoxic activity of wuweizisu C and gomisin A  
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi; Ikeya, Yukinobu; Taguchi, Heihachiro  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1985), (4), 331-4  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:554067 CAPLUS  
 DN 103:154067  
 TI Antihepatotoxic principles of Swertia japonica herbs  
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kubota, Masatoshi; Hattori, Masao; Namba, Tsuneo  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Shoyakugaku Zasshi (1984), 38(4), 359-60  
 CODEN: SHZAA7; ISSN: 0037-4377  
 DT Journal  
 LA English

L2 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:482912 CAPLUS  
 DN 103:82912  
 TI Validity of the Oriental medicines. 72. Liver-protective drugs. 17. Mechanism of antihepatotoxic activity of atractylon, 1: effect on free radical generation and lipid peroxidation  
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1985), (2), 97-100

CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 37 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:447833 CAPLUS  
DN 103:47833  
TI Validity of the Oriental medicines. 73. Liver-protective drugs. 18.  
Antihepatotoxic actions of ginsenosides from Panax ginseng roots  
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kinouchi, Junko; Sanada,  
Shuichi; Shoji, Junzo  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1985), (1), 62-4  
CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 38 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:214629 CAPLUS  
DN 102:214629  
TI Validity of the Oriental medicines. 68. Liver-protective drugs. 15.  
Analgesic and antihepatotoxic actions of dianosides, triterpenoid  
saponins  
of Dianthus superbus var. longicalycinus herbs  
AU Hikino, Hiroshi; Ohsawa, Takatomi; **Kiso, Yoshinobu**; Oshima,  
Yoshiteru  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1984), 50(4), 353-5  
CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 39 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:201124 CAPLUS  
DN 102:201124  
TI Structures of cleomiscosins, coumarinolignoids of Cleome viscosa seeds  
AU Ray, Anil B.; Chattopadhyay, Sunil K.; Kumar, Sandeep; Konno, Chohachi;  
**Kiso, Yoshinobu**; Hikino, Hiroshi  
CS Dep. Med. Chem., Banaras Hindu Univ., Varanasi, 221005, India  
SO Tetrahedron (1985), 41(1), 209-14  
CODEN: TETRAB; ISSN: 0040-4020

DT Journal  
LA English

L2 ANSWER 40 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:197969 CAPLUS  
DN 102:197969  
TI Validity of the Oriental medicines. Part 74. Liver protective drugs.  
Part 20. Studies on the constituents of Ephedra. Part 17.  
Pharmacological actions of analogs of feruloylhistamine, an imidazole  
alkaloid of Ephedra roots  
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Ogata, Minoru; Konno,  
Chohachi; Aisaka, Kazuo; Kubota, Hiroaki; Hirose, Nakako; Ishihara,  
Takafumi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1984), 50(6), 478-80  
CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 41 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:197530 CAPLUS  
 DN 102:197530  
 TI Liver-protective drugs. Part 10. Antihepatotoxic actions of  
 flavonolignans from *Silybum marianum* fruits  
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Wagner, Hildebert; Fiebig,  
 Manfred  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980. Japan  
 SO Planta Med. (1984), 50(3), 248-50  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 42 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:197529 CAPLUS  
 DN 102:197529  
 TI Validity of the Oriental medicines. 60. Liver-protective drugs. 11.  
 Antihepatotoxic actions of lignoids from *Schizandra chinensis* fruits  
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Taguchi, Heihachiro; Ikeya,  
 Yukinobu  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1984), 50(3), 213-18  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:197420 CAPLUS  
 DN 102:197420  
 TI Validity of the Oriental medicines. 88. Liver-protective drugs. 26.  
 Assay methods for antihepatotoxic activity using peroxide-induced  
 cytotoxicity in primary cultured hepatocytes  
 AU **Kiso, Yoshinobu**; Kato, Osamu; Hikino, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1985), (1), 50-2  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 44 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:178740 CAPLUS  
 DN 102:178740  
 TI Validity of Oriental medicines. 65. Liver-protective drugs. 14. Mechanism  
 of antihepatotoxic activity of glycyrrhizin, I: Effect on free radical  
 generation and lipid peroxidation  
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi; Wattori,  
 Masao; Sakamoto, Tatsuya; Namba, Tsuneo  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1984), 50(4), 298-302  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 45 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:90939 CAPLUS  
 DN 102:90939  
 TI Antihepatotoxic actions of papyriogenins and papyriosides, triterpenoids  
 of *Tetrapanax papyriferum* leaves  
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Amagaya, Sakae; Ogihara, Yukio  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO J. Ethnopharmacol. (1984), 12(2), 231-5  
 CODEN: JOETD7; ISSN: 0378-8741  
 DT Journal  
 LA English

L2 ANSWER 46 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:56094 CAPLUS  
 DN 102:56094  
 TI Liver protective drugs. 13. Antihepatotoxic principles of *Salvia plebeia* herbs  
 AU Oshima, Yoshiteru; Kawakami, Yutaka; **Kiso, Yoshinobu**; Hikino, Hiroshi; Yang, Ling Ling; Yen, Kun Ying  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Shoyakugaku Zasshi (1984), 38(2), 201-2  
 CODEN: SHZAAV; ISSN: 0037-4377  
 DT Journal  
 LA English

L2 ANSWER 47 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1985:56093 CAPLUS  
 DN 102:56093  
 TI Liver protective drugs. 12. Antihepatotoxic principles of *Aeginetia indica* herbs  
 AU Oshima, Yoshiteru; Kawakami, Yutaka; **Kiso, Yoshinobu**; Hikino, Hiroshi; Yang, Ling Ling; Yen, Kun Ying  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Shoyakugaku Zasshi (1984), 38(2), 198-200  
 CODEN: SHZAAV; ISSN: 0037-4377  
 DT Journal  
 LA English

L2 ANSWER 48 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1984:504062 CAPLUS  
 DN 101:504062  
 TI Validity of Oriental medicines. 56. Liver-protective drugs. 10. Antihepatotoxic principles of *Artemisia capillaris* buds  
 AU **Kiso, Yoshinobu**; Ogasawara, Shoko; Hirota, Keiko; Watanabe, Noriko; Oshima, Yoshiteru; Konno, Chohachi; Hikino, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Planta Med. (1984), 50(1), 81-5  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1984:151003 CAPLUS  
 DN 100:151003  
 TI Validity of the oriental medicines. Part 53. Liver-protective drugs. Part 8. Antihepatotoxic principles of *Curcuma longa* rhizomes  
 AU **Kiso, Yoshinobu**; Suzuki, Yuriko; Watanabe, Noriko; Oshima, Yoshiteru; Hikino, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1983), 49(3), 185-7  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1984:114469 CAPLUS

DN 100:114469  
 TI Validity of oriental medicines. Part 51. Liver protective drugs. Part  
 6. Assay method for antinepatotoxic activity using carbon tetrachloride  
 induced cytotoxicity in primary cultured hepatocytes  
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Planta Med. (1983), 49(4), 222-5  
 CODEN: PLMEAA; ISSN: 0032-0943  
 DT Journal  
 LA English

L2 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1984:74050 CAPLUS  
 DN 100:74050  
 TI Validity of Oriental medicines. Part 52. Liver-protective drugs. 7.  
 Assay method for antihepatotoxic activity using galactosamine-induced  
 cytotoxicity in primary-cultured hepatocytes  
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO J. Nat. Prod. (1983), 46(6), 841-7  
 CODEN: JNPRDF; ISSN: 0163-3964  
 DT Journal  
 LA English

L2 ANSWER 52 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1983:555139 CAPLUS  
 DN 99:155139  
 TI Stereostructure of curlone, a sesquiterpenoid of *Curcuma longa* rhizomes  
 AU **Kiso, Yoshinobu**; Suzuki, Yuriko; Oshima, Yoshiteru; Hikino,  
 Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Phytochemistry (1983), 22(2), 596-7  
 CODEN: PYTCAS; ISSN: 0031-9422  
 DT Journal  
 LA English

L2 ANSWER 53 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1983:27915 CAPLUS  
 DN 98:27915  
 TI Protective action of desoxypodophyllotoxin on D-galactosamine-induced  
 liver lesion in rats  
 AU **Kiso, Yoshinobu**; Konno, Chohachi; Hikino, Hiroshi; Hashimoto,  
 Ichio; Wakasa, Haruki  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Chem. Pharm. Bull. (1982), 30(10), 3817-21  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English

L2 ANSWER 54 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1982:574487 CAPLUS  
 DN 97:174487  
 TI Validity of the Oriental medicines. Part 40. Liver-protective drugs. Part  
 4. Liver-protective actions of desoxypodophyllotoxin and its analogs  
 AU **Kiso, Yoshinobu**; Konno, Chohachi; Hikino, Hiroshi; Yagi, Yukiko;  
 Hashimoto, Ichio  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO J. Pharmacobio-Dyn. (1982), 5(8), 638-41  
 CODEN: JOPHDQ; ISSN: 0386-846X  
 DT Journal

LA English

L3 ANSWER 55 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1982:550629 CAPLUS

DN 97:150629

TI Liver protective drugs. 5. Validity of the oriental medicines. Part

42. Structure of arcapillin, an antihepatotoxic principle of Artemisia capillaris herbs

AU Kiso, Yoshinobu; Sasaki, Keiko; Oshima, Yoshiteru; Hikino, Hiroshi

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Heterocycles (1982), 19(9), 1615-17

CODEN: HTCYAM; ISSN: 0385-5414

DT Journal

LA English

=> s hyperammonemia or blood(w:ammonia?

L3 5969 HYPERAMMONEMIA OR BLOOD(W) AMMONIA?

=> s l3 and xylobiose?

L4 1 L3 AND XYLOBIOSE?

=> s l3 and xylooligosaccharide?

L5 0 L3 AND XYLOOLIGOSACCHARIDE?

=> s l3 and xylose?

L6 2 L3 AND XYLOSE?

=> d l4 abs ibib

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AB Blood ammonia-lowering agents, remedies for hyperammonemia, or remedies for hepatic encephalopathy without any fear of the incidence of side effects, comprise xylobiose or a xylooligosaccharide contg. xylobiose as the main component which is used as a substitute for lactulose to thereby reduce administration dose. Lactulose, which has been employed in drugs, should be

administered in a large dose and suffers from a problem in safety when administered to patients with galactosemia or diabetes. These problems can be solved by the above drugs contg. xylobiose as the main component.

ACCESSION NUMBER: 2000:401659 CAPLUS

DOCUMENT NUMBER: 133:26861

TITLE: Remedies for hyperammonemia

INVENTOR(S): Kiso, Yoshinobu; Iino, Taeko; Kato, Shinzo

PATENT ASSIGNEE(S): Suntory Limited, Japan

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033850	A1	20000615	WO 1999-JP6901	19991209
W: AU, CA, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				



PT, SE  
EP 1157697 A1 20311129 EP 1999 959718 19991209  
P: AT, BE, CH, DE, DK, ES, FP, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI  
PRIORITY APPLN. INFO.: JP 1998-351955 A 19981210  
WO 1999-JP6901 W 19991209  
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

=> d 16 abs ibib 1-2

L6 ANSWER 1 OF 2 MEDLINE  
AB Although total diversion of portal blood flow has been considered to be  
the main factor leading to encephalopathy following nonselective shunt  
(NSS), increased intestinal absorption of cerebral toxins secondary to  
mesenteric venous decompression could also play a role. Conversely, the  
low frequency of encephalopathy after the distal splenorenal shunt (DSRS)  
may be due to preservation of both hepatic portal perfusion and  
mesenteric  
venous hypertension. Portal hemodynamics, intestinal absorption of D-  
**xylose**, ammonia metabolism, and clinical encephalopathy were  
assessed preoperatively and in the early and late postoperative periods  
in  
cirrhotic patients selected for the DSRS (n = 12) and NSS (n = 10).  
Preoperatively, NSS patients had significantly less hepatopetal portal  
blood flow (P = 0.03) and lower D-**xylose** absorption (P = 0.004)  
than DSRS patients. DSRS resulted in no significant alterations in  
hepatic  
portal perfusion, portal pressure, D-**xylose** absorption, fasting  
**blood ammonia** (NH<sub>3</sub>), or tolerance to an oral dose of  
ammonium chloride. In contrast, NSS resulted in complete portal diversion  
and decompression and significant enhancement of D-**xylose**  
absorption on both the early (P = 0.02) and late (P = 0.03) postoperative  
evaluations. Early and late postoperative levels of NH<sub>3</sub> were  
significantly  
higher in NSS patients. Encephalopathy was more frequent after NSS (80%)  
than after DSRS (17%, P = 0.003). When all patients were considered,  
preoperative to early DSRS (17%, P = 0.003). When all patients were  
considered, preoperative to early postoperative change in NH<sub>3</sub> correlated  
with change in D-**xylose** absorption (r = 0.52, p = 0.02), and  
there were significantly more individuals with a greater than 2 gm  
increase in D-**xylose** absorption who developed encephalopathy  
(83%) than patients with no or minimal increase in D-**xylose**  
absorption (33%, P = 0.04). The results of this study suggest that  
altered  
intestinal absorption may be one of many factors determining postshunt  
cerebral function.

ACCESSION NUMBER: 83276253 MEDLINE  
DOCUMENT NUMBER: 83276253 PubMed ID: 6879434  
TITLE: Portal hemodynamics, intestinal absorption, and postshunt  
encephalopathy.  
AUTHOR: Rikkers L F  
CONTRACT NUMBER: 1R01AM31371 (NIADDK)  
RR64 (NCRP)  
SOURCE: SURGERY, (1983 Aug) 94 (2) 126-33.  
Journal code: VC3; 0417347. ISSN: 0039-6060.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)

=> d 115

L15 ANSWER 1 OF 1 MEDLINE  
AN 83276253 MEDLINE  
DN 83276253 PubMed ID: 6879434  
TI Portal hemodynamics, intestinal absorption, and postshunt  
encephalopathy.  
AU Rikkers L F  
NC 1R01AM31371 (NIADDK)  
R664 (NCRR)  
SO SURGERY, (1983 Aug) 94 (2) 126-33.  
Journal code: VC3; 0417347. ISSN: 0039-6060.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 198309  
ED Entered STN: 19900319  
Last Updated on STN: 19970203  
Entered Medline: 19830909

=> d 116

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 2000:401659 CAPLUS  
DN 133:26861  
TI Remedies for hyperammonemia  
IN Kiso, Yoshinobu; Iino, Taeko; Kato, Shinzo  
PA Suntory Limited, Japan  
SO PCT Int. Appl., 25 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000033850	A1	20000615	WO 1999-JP6901	19991209
	W: AU, CA, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1157697	A1	20011128	EP 1999-959718	19991209
	F: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	JP 1998-351955	A	19981210		
	WO 1999-JP6901	W	19991209		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 114 and treatment?

L17 411 L14 AND TREATMENT?

=> d 117 not py>1997

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in at least one of the files. Refer to file specific help messages  
or the STNGUIDE file for information on formats available in

individual files.

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=> s 117 not py:1997

L18 320 L17 NOT PY:1997

=> d 118 1-50

L18 ANSWER 1 OF 320 MEDLINE

AN 1998044486 MEDLINE

DN 98044486 PubMed ID: 9383349

TI Hepatic coma recovered after interventional obliteration for ileocecal-inferior vena cava shunt--report of one case.

AU Sawano T; Kawashima T; Takase Y; Chikamori F; Shibuya S; Fukao K

CS Department of Surgery, Tsukuba Soai Hospital.

SO WIADOMOSCI LEFARSKIE, (1997) 50 Suppl 1 Pt 1 296-7.

Journal code: 9705467. ISSN: 0043-5147.

CY Poland

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199801

ED Entered STN: 19980206

Last Updated on STN: 20020220

Entered Medline: 19980129

L18 ANSWER 2 OF 320 MEDLINE

AN 97468050 MEDLINE

DN 97468050 PubMed ID: 9327194

TI Rifaximin, a non-absorbable rifamycin, for the treatment of hepatic encephalopathy. A double-blind, randomised trial.

AU Miglio F; Valpiani D; Rossellini S R; Ferrieri A

CS Service of First Aid and Emergency Medicine, St Orsola Hospital, Bologna, Italy.

SO CURRENT MEDICAL RESEARCH AND OPINION, (1997) 13 (10) 593-601.

Journal code: DUX; 0351014. ISSN: 0300-7995.

CY ENGLAND: United Kingdom

DT (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(MULTICENTER STUDY)

(RANDOMIZED CONTROLLED TRIAL)

LA English

FS Priority Journals

EM 199711

ED Entered STN: 19971224

Last Updated on STN: 19971224

Entered Medline: 19971106

L18 ANSWER 3 OF 320 MEDLINE

AN 97455258 MEDLINE

DN 97455258 PubMed ID: 9309629

TI Pre-exercise branched-chain amino acid administration increases endurance performance in rats.

AU Calders P; Pannier J L; Matthys D M; Lacroix E M

CS Laboratory of Normal and Pathological Physiology, University of Gent, Belgium.

SO MEDICINE AND SCIENCE IN SPORTS AND EXERCISE, (1997 Sep) 29 (9) 1182-6.

Journal code: MQ8; 8005433. ISSN: 0195-9131.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English  
FS Priority Journals  
EM 199710  
ED Entered STN: 19971224  
Last Updated on STN: 19971224  
Entered Medline: 19971030

L18 ANSWER 4 OF 320 MEDLINE  
AN 97329239 MEDLINE  
DN 97329239 PubMed ID: 9185752  
TI Therapeutic efficacy of L-ornithine-L-aspartate infusions in patients  
with cirrhosis and hepatic encephalopathy: results of a placebo-controlled,  
double-blind study.  
AU Kirchels G; Nilius R; Held C; Berndt H; Buchner M; Gortelmeyer R;  
Hendricks R; Kruger B; Kuklinski B; Meister H; Otto H J; Rink C; Rosch W;  
Stauch S  
CS Martin-Luther-University Halle-Wittenberg, Department of Internal  
Medicine, Germany.  
SO HEPATOLOGY, (1997 Jun) 25 (6) 1351-60.  
Journal code: GBZ; 8302946. ISSN: 0270-9139.  
CY United States  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(MULTICENTER STUDY)  
(RANDOMIZED CONTROLLED TRIAL)

LA English  
FS Priority Journals  
EM 199707  
ED Entered STN: 19970724  
Last Updated on STN: 19970724  
Entered Medline: 19970714

L18 ANSWER 5 OF 320 MEDLINE  
AN 97206040 MEDLINE  
DN 97206040 PubMed ID: 9148009  
TI L-ornithine vs. L-ornithine-L-aspartate as a treatment for  
hyperammonemia-induced encephalopathy in rats.  
AU Vogels B A; Karlson O T; Mass M A; Bovee W M; Chamuleau R A  
CS University of Amsterdam, Department of Experimental Internal Medicine,  
The Netherlands.  
SO JOURNAL OF HEPATOLOGY, (1997 Jan) 26 (1) 174-82.  
Journal code: IBS; 8503886. ISSN: 0168-8278.  
CY Denmark  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199705  
ED Entered STN: 19970523  
Last Updated on STN: 19970523  
Entered Medline: 19970509

L18 ANSWER 6 OF 320 MEDLINE  
AN 96371822 MEDLINE  
DN 96371822 PubMed ID: 8775645  
TI Blood lactate and ammonia in short-term anaerobic work following induced  
alkalosis.  
AU Ibanez J; Pullinen T; Gorostiaga E; Postigo A; Mero A  
CS Centro de Investigacion y Medicina del Deporte, Instituto Navarro de

Deporte y Juventud, Gobierno de Navarra, Pamplona, Spain.  
SO JOURNAL OF SPORTS MEDICINE AND PHYSICAL FITNESS, (1995 Sep) 35 (3)  
187 93.

Journal code: K6V; 0176337. ISSN: 0022-4707.

CY Italy  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)

LA English  
FS Priority Journals  
EM 199612  
ED Entered STN: 19970128  
Last Updated on STN: 19970128  
Entered Medline: 19961206

L18 ANSWER 7 OF 320 MEDLINE  
AN 96369529 MEDLINE  
DN 96369529 PubMed ID: 8773535  
TI Studies on ammonia-metabolizing enzymes during Plasmodium yoelii  
infection

and pyrimethamine **treatment** in mice.  
AU Agrawal A; Tripathi L M; Puri S K; Pandey V C  
CS Division of Biochemistry, Central Drug Research Institute, Lucknow,  
India.

SO INTERNATIONAL JOURNAL FOR PAPASITOLOGY, (1996 Apr) 26 (4) 451-5.  
Journal code: GSB; 0314024. ISSN: 0020-7519.

CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199610  
ED Entered STN: 19961025  
Last Updated on STN: 19980206  
Entered Medline: 19961011

L18 ANSWER 8 OF 320 MEDLINE  
AN 96138894 MEDLINE  
DN 96138894 PubMed ID: 8530808  
TI Long-term effects of Enterococcus faecium SF68 versus lactulose in the  
**treatment** of patients with cirrhosis and grade 1-2 hepatic  
encephalopathy.

AU Loguercio C; Abbiati R; Rinaldi M; Romano A; Del Vecchio Blanco C;  
Coltorti M  
CS Cattedra di Gastroenterologia, Facolta di Medicina e Chirurgia, II  
Universita di Napoli, Italy.

SO JOURNAL OF HEPATOLOGY, (1995 Jul) 23 (1) 39-46.  
Journal code: IBS; 8503886. ISSN: 0168-8278.

CY Denmark  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)

LA English  
FS Priority Journals  
EM 199601  
ED Entered STN: 19960220  
Last Updated on STN: 19960220  
Entered Medline: 19960131

L18 ANSWER 9 OF 320 MEDLINE  
AN 96107796 MEDLINE

DN 96107796 PubMed ID 8555710  
 TI Surgical **treatment** of an enormous aneurysmal portahepatic venous  
 fistula: report of a case.  
 AU Miyauchi A; Okada S; Hashimoto T; Wakabayashi H; Maeba T; Tanaka S;  
 Hayashi H  
 CS First Department of Surgery, Kagawa Medical School, Japan.  
 SO SURGERY TODAY, (1995) 25 (9) 855-8. Ref: 11  
 Journal code: BFZ; 9204350. ISSN: 0941-1291.  
 CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW OF REPORTED CASES)  
 LA English  
 FS Priority Journals  
 EM 199602  
 ED Entered STN: 19960312  
 Last Updated on STN: 19960312  
 Entered Medline: 19960227

L18 ANSWER 10 OF 320 MEDLINE  
 AN 96039207 MEDLINE  
 DN 96039207 PubMed ID: 7579738  
 TI Hyperalbuminemia associated with liver transplantation and acute renal  
 failure.  
 AU Erasmus R T; Kusnir J; Stevenson W C; Lobo P; Herman M M; Wills M R;  
 Savory J  
 CS Department of Pathology, University of Virginia Health Sciences Center,  
 Charlottesville 22908, USA.  
 SO CLINICAL TRANSPLANTATION, (1995 Aug) 9 (4) 307-11.  
 Journal code: BB5; 8710240. ISSN: 0902-0063.  
 CY Denmark  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199512  
 ED Entered STN: 19960124  
 Last Updated on STN: 19970203  
 Entered Medline: 19951215

L18 ANSWER 11 OF 320 MEDLINE  
 AN 95404686 MEDLINE  
 DN 95404686 PubMed ID: 7674372  
 TI Hyperammonemia increases serotonin 1A receptor expression in both rat  
 hippocampus and a transfected hippocampal cell line, HN2-5.  
 AU Alexander J J; Banerjee P; Dawson G; Tonsgard J H  
 CS Dept. of Pediatrics, University of Chicago, IL 60637, USA.  
 NC HD 06426 (NICHD)  
 SO JOURNAL OF NEUROSCIENCE RESEARCH, (1995 May 1) 41 (1) 105-10.  
 Journal code: KAC; 7600111. ISSN: 0360-4012.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199510  
 ED Entered STN: 19951026  
 Last Updated on STN: 19951026  
 Entered Medline: 19951017

L18 ANSWER 12 OF 320 MEDLINE  
 AN 95375901 MEDLINE

DN 95375901 PubMed ID: 7647902  
 TI Effect of biotin on ammonia intoxication in rats and mice.  
 AU Nagamine T; Saito S; Kaneko M; Sekiguchi T; Sugimoto H; Takehara K;  
 Takagi  
 H  
 CS First Department of Internal Medicine, Gunma University School of  
 Medicine, Maebashi, Japan.  
 SO JOURNAL OF GASTROENTEROLOGY, (1995 Jun) 30 (3) 351-5.  
 Journal code: BWP; 9430794. ISSN: 0944-1174.  
 CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199509  
 ED Entered STN: 19951005  
 Last Updated on STN: 19980206  
 Entered Medline: 19950928

L18 ANSWER 13 OF 320 MEDLINE  
 AN 95334797 MEDLINE  
 DN 95334797 PubMed ID: 7610459  
 TI Alteration of ammonia and carnitine levels in short-term treatment  
 with pivalic acid-containing prodrug.  
 AU Ito T; Sugiyama N; Kobayashi M; Kidouchi K; Itoh T; Uemura O; Sugiyama K;  
 Togari H  
 CS Department of Pediatrics, Nagoya City University Medical School.  
 SO TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE, (1995 Jan) 175 (1) 43-53.  
 Journal code: VIF; 0417355. ISSN: 0040-8727.  
 CY Japan  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199508  
 ED Entered STN: 19950828  
 Last Updated on STN: 19950828  
 Entered Medline: 19950816

L18 ANSWER 14 OF 320 MEDLINE  
 AN 95278983 MEDLINE  
 DN 95278983 PubMed ID: 7759146  
 TI Evaluation of the BioLogic-DT sorbent-suspension dialyser in patients  
 with  
 fulminant hepatic failure.  
 AU Hughes R D; Pucknell A; Routley D; Langley P G; Wendon J A; Williams R  
 CS Institute of Liver Studies, King's College Hospital, London, UK.  
 SO INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, (1994 Dec) 17 (12) 657-62.  
 Journal code: GQO; 7807649. ISSN: 0391-3988.  
 CY Italy  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199506  
 ED Entered STN: 19950707  
 Last Updated on STN: 19950707  
 Entered Medline: 19950629

L19 ANSWER 15 OF 370 MEDLINE  
 AN 95227958 MEDLINE  
 DN 95227958 PubMed ID: 7712392  
 TI **Treatment** of porto-systemic encephalopathy with lactitol versus lactulose: a randomized controlled study.  
 AU Pai C H; Huang Y S; Jeng W C; Chan C Y; Lee S D  
 CS Department of Medicine, Veterans General Hospital Taipei, Taiwan, R.O.C.  
 SO CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1995 Jan) 55 (1) 31-6.  
 Journal code: CHQ; 0005327. ISSN: 0578-1337.  
 CY TAIWAN: Taiwan, Province of China  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199505  
 ED Entered STN: 19950524  
 Last Updated on STN: 19950524  
 Entered Medline: 19950518

L18 ANSWER 16 OF 320 MEDLINE  
 AN 95213558 MEDLINE  
 DN 95213558 PubMed ID: 7599233  
 TI Effects of long-term administration of low-dose lactitol in patients with cirrhosis but without overt encephalopathy.  
 AU Salerno F; Moser P; Maggi A; Vitaliani G; Benetti G  
 CS Istituto di Medicina Interna, Universita di Milano, Italy.  
 SO JOURNAL OF HEPATOLOGY, (1994 Dec) 21 (6) 1092-6.  
 Journal code: IBS; 8503886. ISSN: 0168-8278.  
 CY Denmark  
 DT (CLINICAL TRIAL)  
 (CONTROLLED CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199505  
 ED Entered STN: 19950510  
 Last Updated on STN: 19990129  
 Entered Medline: 19950503

L18 ANSWER 17 OF 320 MEDLINE  
 AN 95145258 MEDLINE  
 DN 95145258 PubMed ID: 7842973  
 TI Anastomotic coarctation in the **treatment** of serious encephalopathy following splenosystemic shunt.  
 AU Xue H Z; Lu Z X; Jiang Q F  
 CS Henan Provincial People's Hospital, Zhengzhou.  
 SO CHUNG-HUA WAI KO TSA CHIH [CHINESE JOURNAL OF SURGERY], (1994 Jul) 32 (7) 398-9.  
 Journal code: B86; 0153611. ISSN: 0529-5815.  
 CY China  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA Chinese  
 FS Priority Journals  
 EM 199503  
 ED Entered STN: 19950316  
 Last Updated on STN: 19950316  
 Entered Medline: 19950307



L13 ANSWER 18 OF 320 MEDLINE  
 AN 95008467 MEDLINE  
 DN 95008467 PubMed ID: 7923999  
 TI Effect of acute lactulose administration on serum acetate levels in cirrhosis.  
 AU Fernandes J; Morali G; Wolever T M; Blendis L M; Koc M; Jenkins D J; Rao A  
 V  
 CS Department of Nutritional Sciences, Faculty of Medicine, Toronto Hospital,  
 University of Toronto, Ontario.  
 SO CLINICAL AND INVESTIGATIVE MEDICINE. MEDECINE CLINIQUE ET EXPERIMENTALE, (1994 Jun) 17 (3) 218-25.  
 Journal code: DFG; 7804071. ISSN: 0147-958X.  
 CY Canada  
 DT (CLINICAL TRIAL)  
 (CONTROLLED CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199410  
 ED Entered STN: 19941222  
 Last Updated on STN: 19990129  
 Entered Medline: 19941028

L18 ANSWER 19 OF 320 MEDLINE  
 AN 94361648 MEDLINE  
 DN 94361648 PubMed ID: 8080406  
 TI Congenital portosystemic shunts in Maltese and Australian cattle dogs.  
 AU Tisdall P L; Hunt G B; Bellenger C R; Malik R  
 CS Veterinary Cardiovascular Unit, University of Sydney, New South Wales.  
 SO AUSTRALIAN VETERINARY JOURNAL, (1994 Jun) 71 (6) 174-8.  
 Journal code: 9IE; 0370616. ISSN: 0005-0423.  
 CY Australia  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199410  
 ED Entered STN: 19941013  
 Last Updated on STN: 19941013  
 Entered Medline: 19941004

L18 ANSWER 20 OF 320 MEDLINE  
 AN 94194657 MEDLINE  
 DN 94194657 PubMed ID: 8145365  
 TI An experience of transjugular intrahepatic portosystemic shunt in the treatment of gastroesophageal varices.  
 AU Matsuzaka S; Kanazawa H; Kobayashi M; Kumazaki T  
 CS Third Department of Internal Medicine, Nippon Medical School.  
 SO NIPPON SHOKAKIYO GAKKAI ZASSHI. JAPANESE JOURNAL OF GASTROENTEROLOGY, (1994 Mar) 91 (3) 257-66.  
 Journal code: KJY; 2984683R. ISSN: 0446-6586.  
 CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA Japanese  
 FS Priority Journals  
 EM 199405  
 ED Entered STN: 19940511  
 Last Updated on STN: 19940511

Entered Medline: 19940504

L18 ANSWER 21 OF 320 MEDLINE  
AN 94155777 MEDLINE  
DN 94155777 PubMed ID: 8112241  
TI Effects of valproate and citrulline on ammonium induced encephalopathy.  
AU Stephens J R; Levy R H  
CS Department of Pharmaceutics, University of Washington, Seattle 98195.  
SO EPILEPSIA, (1994 Jan-Feb) 35 (1) 164-71.  
Journal code: EIX; 2983306R. ISSN: 0013-9580.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199403  
ED Entered STN: 19940406  
Last Updated on STN: 19940406  
Entered Medline: 19940325

L18 ANSWER 22 OF 320 MEDLINE  
AN 94070444 MEDLINE  
DN 94070444 PubMed ID: 8249670  
TI Paroxysmic neuropsychological symptoms as the early expression of hepatic encephalopathy. A case report.  
CM Erratum in: Acta Neurol (Napoli) 1993 Oct;15(5):preceding 321  
AU Abts H; Crols R; Marien P; Saerens J; Holvoet J; de Deyn P  
CS Department of Neurology, General Hospital Middelheim, Antwerp, Belgium.  
SO ACTA NEUROLOGICA, (1993 Aug) 15 (4) 268-76.  
Journal code: 19Y; 0421100. ISSN: 0001-6276.  
CY Italy  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199312  
ED Entered STN: 19940201  
Last Updated on STN: 19950206  
Entered Medline: 19931228

L18 ANSWER 23 OF 320 MEDLINE  
AN 94050346 MEDLINE  
DN 94050346 PubMed ID: 8232725  
TI High ammonia diet: its effect on the glial fibrillary acidic protein (GFAP).  
AU Bodega G; Suarez I; Boyano M C; Rubio M; Villalba R M; Arilla E; Gonzalez-Guijarro L; Fernandez B  
CS Departamento de Biologia Celular y Genetica, Universidad de Alcala, Madrid, Spain.  
SO NEUROCHEMICAL RESEARCH, (1993 Sep) 18 (9) 971-5.  
Journal code: NX9; 7613461. ISSN: 0364-3190.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199312  
ED Entered STN: 19940117  
Last Updated on STN: 19940117  
Entered Medline: 19931207

L18 ANSWER 24 OF 320 MEDLINE  
AN 94025503 MEDLINE

DN 94025503 PubMed ID: 8212501  
TI Idiopathic hepatic fibrosis in 15 dogs.  
AU Rutgers H C; Haywood S; Kelly D P  
CS Department of Small Animal Medicine and Surgery, Royal Veterinary  
College,  
Hatfield, Hertfordshire.  
SO VETERINARY RECORD, (1993 Jul 31) 133 (5) 215-8.  
Journal code: XBS; 0031164. ISSN: 0042-4900.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199310  
ED Entered STN: 19940117  
Last Updated on STN: 19980206  
Entered Medline: 19931029

L18 ANSWER 25 OF 320 MEDLINE  
AN 93282907 MEDLINE  
DN 93282907 PubMed ID: 8507304  
TI Changes in the cytoplasmic (lactate dehydrogenase) and plasma membrane  
(acetylcholinesterase) marker enzymes in the synaptic and nonsynaptic  
mitochondria derived from rats with moderate hyperammonemia.  
AU Faff-Michalak L; Albrecht J  
CS Department of Neuropathology, Polish Academy of Sciences, Warsaw.  
SO MOLECULAR AND CHEMICAL NEUROPATHOLOGY, (1993 Apr) 18 (3) 257-65.  
Journal code: AB3; 8910358. ISSN: 1044-7393.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199307  
ED Entered STN: 19930723  
Last Updated on STN: 19930723  
Entered Medline: 19930712

L18 ANSWER 26 OF 320 MEDLINE  
AN 93254000 MEDLINE  
DN 93254000 PubMed ID: 8487502  
TI Carbamoylphosphate synthetase deficiency in an adult: deterioration due  
to  
administration of valproic acid.  
AU Horiuchi M; Imamura Y; Nakamura N; Maruyama I; Saheki T  
CS Department of Internal Medicine, Faculty of Medicine, Kogoshima  
University, Japan.  
SO JOURNAL OF INHERITED METABOLIC DISEASE, (1993) 16 (1) 39-45.  
Journal code: KY8; 7910918. ISSN: 0141-8955.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199306  
ED Entered STN: 19930618  
Last Updated on STN: 19980206  
Entered Medline: 19930607

L18 ANSWER 27 OF 320 MEDLINE  
AN 93165410 MEDLINE  
DN 93165410 PubMed ID: 8433664  
TI Effect of intravenous amino acids on protein metabolism of preterm  
infants

during the first three days of life.

AU Rivera A Jr; Bell E P; Bier D M  
 CS Department of Pediatrics, University of Iowa, Iowa City 52242.  
 NC HD07578 (NICHHD)  
 HD16974 (NICHHD)  
 HD20405 (NICHHD)  
 \*

SO PEDIATRIC RESEARCH, (1993 Feb; 33 (2) 106-11.  
 Journal code: OWL; 0100714. ISSN: 0021-3998.  
 CY United States  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199303  
 ED Entered STN: 19930402  
 Last Updated on STN: 19970203  
 Entered Medline: 19930317

L18 ANSWER 28 OF 320 MEDLINE  
 AN 93106317 MEDLINE  
 DN 93106347 PubMed ID: 1468606  
 TI Obliteration of portal systemic shunts as therapy for hepatic encephalopathy in patients with non-cirrhotic portal hypertension.  
 AU Ito T; Ikeda N; Watanabe A; Sue K; Kakio T; Mimura H; Tsuji T  
 CS First Department of Internal Medicine, Okayama University Medical School, Japan.  
 SO GASTROENTEROLOGIA JAPONICA, (1992 Dec) 27 (6) 759-64.  
 Journal code: FHY; 0152744. ISSN: 0435-1339.  
 CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199301  
 ED Entered STN: 19930212  
 Last Updated on STN: 19930212  
 Entered Medline: 19930128

L18 ANSWER 29 OF 320 MEDLINE  
 AN 93093724 MEDLINE  
 DN 93093724 PubMed ID: 1459672  
 TI Effect of three antibacterial drugs in lowering blood & stool ammonia production in hepatic encephalopathy.  
 AU Alexander T; Thomas K; Cherian A M; Kanakasabapathy  
 CS Department of Medicine, Christian Medical College, Vellore.  
 SO INDIAN JOURNAL OF MEDICAL RESEARCH, (1992 Oct) 96 292-6.  
 Journal code: GJF; 0374701. ISSN: 0971-5916.  
 CY India  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199301  
 ED Entered STN: 19930129  
 Last Updated on STN: 19930129  
 Entered Medline: 19930113

L18 ANSWER 30 OF 320 MEDLINE  
 AN 93054152 MEDLINE  
 DN 93054152 PubMed ID: 1429294

TI Effect of intraperitoneal administration of lysine and methionine on  
 mohair yield and quality in Angora goats.  
 AU Sahlu T; Fernandez J M  
 CF E. (Kika) de la Garza Institute for Goat Research, Langston University,  
 Oklahoma 73050.  
 SO JOURNAL OF ANIMAL SCIENCE, (1992 Oct) 76 (10) 3188-93.  
 Journal code: HC7; 8603062. ISSN: 0021-8812.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199212  
 ED Entered STN: 19930122  
 Last Updated on STN: 19930122  
 Entered Medline: 19921201

L18 ANSWER 31 OF 320 MEDLINE  
 AN 93038972 MEDLINE  
 DN 93038972 PubMed ID: 1418064  
 TI Crystalline lactulose in the therapy of hepatic cirrhosis. Evaluation of  
 clinical and immunological parameters. Preliminary results.  
 AU Vendemiale G; Palasciano G; Cirelli F; Altamura M; De Vincentiis A;  
 Altomare E  
 CS Istituto di Clinica Medica 1a, Universita di Bari, Italy.  
 SO ARZNEIMITTEL-FORSCHUNG, (1992 Jul) 42 (7) 969-72.  
 Journal code: 91U; 0372660. ISSN: 0004-4172.  
 CY GERMANY: Germany, Federal Republic of  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199211  
 ED Entered STN: 19930122  
 Last Updated on STN: 19950206  
 Entered Medline: 19921120

L18 ANSWER 32 OF 320 MEDLINE  
 AN 92192571 MEDLINE  
 DN 92192571 PubMed ID: 1547989  
 TI An autopsy case of citrullinemia type II complicated with chronic  
 pancreatitis.  
 AU Tatsumoto T; Yamamoto K; Kudo J; Kondo H; Shimamura R; Hirata Y;  
 Ishibashi  
 H; Niho Y; Toki N; Nakashima Y; +  
 CS First Department of Internal Medicine, Faculty of Medicine, Kyushu  
 University, Fukuoka.  
 SO FUKUOKA IGAKU ZASSHI. FUKUOKA ACTA MEDICA, (1992 Jan) 83 (1) 43-50.  
 Journal code: F8R; 9423321. ISSN: 0016-254X.  
 CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA Japanese  
 FS Priority Journals  
 EM 199204  
 ED Entered STN: 19920509  
 Last Updated on STN: 19920509  
 Entered Medline: 19920423

L18 ANSWER 33 OF 320 MEDLINE  
 AN 92184210 MEDLINE

DN 92184210 PubMed ID: 1544625  
TI **Treatment** of hyperammonemia with carbamylglutamate in rats.  
AU Grau E; Felipe V; Minana M D; Grisolia S  
CS Instituto de Investigaciones Citologicas, Centro Asociado del CSIC,  
Valencia, Spain.  
SO HEPATOLOGY, (1992 Mar) 15 (3) 446-8.  
Journal code: GBZ; 8302946. ISSN: 0270-9139.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199204  
ED Entered STN: 19920424  
Last Updated on STN: 19980206  
Entered Medline: 19920414

L18 ANSWER 34 OF 320 MEDLINE  
AN 92139736 MEDLINE  
DN 92139736 PubMed ID: 1779615  
TI N-acetylglutamate synthetase deficiency: clinical and laboratory  
observations.  
AU Pandya A L; Koch R; Hommes F A; Williams J C  
CS Division of Medical Genetics, Childrens Hospital of Los Angeles, CA  
90054.  
SO JOURNAL OF INHERITED METABOLIC DISEASE, (1991) 14 (5) 685-90.  
Journal code: KY8; 7910918. ISSN: 0141-8955.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199203  
ED Entered STN: 19920329  
Last Updated on STN: 19990129  
Entered Medline: 19920310

L18 ANSWER 35 OF 320 MEDLINE  
AN 92089579 MEDLINE  
DN 92089579 PubMed ID: 1751811  
TI Rifaximin versus neomycin on hyperammonemia in chronic portal systemic  
encephalopathy of cirrhotics. A double-blind, randomized trial.  
AU Pedretti G; Calcetti C; Missale G; Fiaccadori F  
CS Cattedra di Malattie Infettive, Universita di Parma, Italy.  
SO ITALIAN JOURNAL OF GASTROENTEROLOGY, (1991 May) 23 (4) 175-8.  
Journal code: A9I; 8000544. ISSN: 0392-0623.  
CY Italy  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199201  
ED Entered STN: 19920216  
Last Updated on STN: 19920216  
Entered Medline: 19920128

L18 ANSWER 36 OF 320 MEDLINE  
AN 91361907 MEDLINE  
DN 91361907 PubMed ID: 2103690  
TI Ammonia metabolism in normal and portacaval shunted rats.  
AU Cooper A J

CS Department of Biochemistry, Cornell University Medical College, New York,  
 NY 10021.  
 NC DK-16729 (NIDDK)  
 SO ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1990) 272 23 46. Ref:  
 126  
 Journal code: ZLU; 0121103. ISSN: 0065-2598.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW;  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 199110  
 ED Entered STN: 19911027  
 Last Updated on STN: 19911027  
 Entered Medline: 19911004

L18 ANSWER 37 OF 320 MEDLINE  
 AN 91347467 MEDLINE  
 DN 91347467 PubMed ID: 1831712  
 TI Propionic acidemia: one case report.  
 AU Yuan L  
 CS Institute of Basic Medical Sciences, Beijing.  
 SO CHUNG-KUO I HSUEH KO HSUEH YUAN HSUEH PAO ACTA ACADEMIAE MEDICINAE  
 SINICAE, (1991 Apr) 13 (2) 141-3.  
 Journal code: CES; 8006230. ISSN: 1000-503X.  
 CY China  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA Chinese  
 FS Priority Journals  
 EM 199110  
 ED Entered STN: 19911020  
 Last Updated on STN: 19911020  
 Entered Medline: 19911003

L18 ANSWER 38 OF 320 MEDLINE  
 AN 91249366 MEDLINE  
 DN 91249366 PubMed ID: 2095300  
 TI Hyperaminoacidemia in epileptic children treated with valproic acid.  
 AU Castro-Gago M; Rodrigo-Saez E; Novo-Rodriguez I; Camina M F;  
 Rodriguez-Segade S  
 CS Departamento de Pediatria, Hospital Clinico Universitario, Universidad de  
 Santiago de Compostela, Spain.  
 SO CHILDS NERVOUS SYSTEM, (1990 Dec) 6 (8) 434-6.  
 Journal code: CNV; 8503227. ISSN: 0256-7040.  
 CY GERMANY: Germany, Federal Republic of  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199107  
 ED Entered STN: 19910728  
 Last Updated on STN: 19910728  
 Entered Medline: 19910705

L18 ANSWER 39 OF 320 MEDLINE  
 AN 91231402 MEDLINE  
 DN 91231402 PubMed ID: 2030076  
 TI Valproate in the treatment of persistent chronic daily headache.  
 An open label study.  
 AU Mathew N T; Ali S

CS Houston Headache Clinic, TX 77004.  
 SO HEADACHE, (1991 Feb, 31 (2) 71-4.  
 Journal code: GIN; 2985091R. ISSN: 0017-8748.  
 CY United States  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199106  
 ED Entered STN: 19910707  
 Last Updated on STN: 19910707  
 Entered Medline: 19910617

L18 ANSWER 40 OF 320 MEDLINE  
 AN 91149785 MEDLINE  
 DN 91149785 PubMed ID: 2291040  
 TI [Late diagnosis of congenital argininemia during administration of sodium valproate].  
 Argininemie congenitale diagnostiquee tardivement a l'occasion de la prescription de valproate de sodium.  
 AU Christmann D; Hirsch E; Mutschler V; Collard M; Marescaux C; Colombo J P  
 CS Clinique Medicale A, Hopital Civil, Strasbourg, France.  
 SO REVUE NEUROLOGIQUE, (1990) 146 (12) 764-6. Ref: 20  
 Journal code: SU9; 2984779R. ISSN: 0035-3787.  
 CY France  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW OF REPORTED CASES)  
 LA French  
 FS Priority Journals  
 EM 199104  
 ED Entered STN: 19910419  
 Last Updated on STN: 19910419  
 Entered Medline: 19910404

L18 ANSWER 41 OF 320 MEDLINE  
 AN 91143354 MEDLINE  
 DN 91143354 PubMed ID: 2288226  
 TI Continuous monitoring of intracranial pressure in Reye's syndrome--5 years experience.  
 AU Chi C S; Law K L; Wong T T; Su G Y; Lin N  
 CS Department of Pediatrics, Veterans General Hospital, Taipei Taiwan, Republic of China.  
 SO ACTA PAEDIATRICA JAPONICA, (1990 Aug) 32 (4) 426-34.  
 Journal code: 1L3; 0370357. ISSN: 0374 5600.  
 CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199103  
 ED Entered STN: 19910412  
 Last Updated on STN: 19980206  
 Entered Medline: 19910328

L18 ANSWER 42 OF 320 MEDLINE  
 AN 90151770 MEDLINE  
 DN 90151770 PubMed ID: 2303075  
 TI A case of carbamylphosphate synthetase I deficiency associated with secondary carnitine deficiency--L-carnitine treatment of CPS-I



deficiency

AC Mori T; Tsuchiyama A; Nagai K; Nagao M; Oyanagi K; Tsugawa S  
 CS Department of Paediatrics, Sapporo Medical College, Japan.  
 SO EUROPEAN JOURNAL OF PEDIATRICS, (1990 Jan) 149 (4) 272-4.  
 Journal code: EMD; 7603873. ISSN: 0340-6199.

CY GERMANY, WEST: Germany, Federal Republic of  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199003  
 ED Entered STN: 19900601  
 Last Updated on STN: 19980206  
 Entered Medline: 19900321

L18 ANSWER 43 OF 320 MEDLINE  
 AN 90125403 MEDLINE  
 DN 90125403 PubMed ID: 2692930  
 TI An autopsied case of type II citrullinemia--transient effectiveness with  
 either citrate or benzoate to the consciousness disturbance.  
 AU Ujihira N; Ohya M; Mabuchi C; Indo T; Hashizume Y  
 SO RINSHO SHINKAI GAKU. CLINICAL NEUROLOGY, (1989 Apr) 29 (4) 436-41. Ref:  
 26  
 Journal code: DF2; 0417466. ISSN: 0009-918X.

CY Japan  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW OF REPORTED CASES)  
 LA Japanese  
 FS Priority Journals  
 EM 199003  
 ED Entered STN: 19900328  
 Last Updated on STN: 19990129  
 Entered Medline: 19900312

L18 ANSWER 44 OF 320 MEDLINE  
 AN 90004150 MEDLINE  
 DN 90004150 PubMed ID: 2529084  
 TI [Metadoxine in alcohol-related pathology].  
 La metadoxina nella patologia alcol-correlata.  
 AU Santoni S; Corradini P; Zocchi M; Camarri F  
 SO CLINICA TERAPEUTICA, (1989 Jul 31) 130 (2) 115-22.  
 Journal code: DKN; 0372604. ISSN: 0009-9074.

CY Italy  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA Italian  
 FS Priority Journals  
 EM 198911  
 ED Entered STN: 19900328  
 Last Updated on STN: 19900328  
 Entered Medline: 19891121

L18 ANSWER 45 OF 320 MEDLINE  
 AN 89136532 MEDLINE  
 DN 89136532 PubMed ID: 2906283  
 TI Effects of varying doses of methionine sulfoximine on liver glutamine  
 synthetase activity and time courses of blood and urinary nitrogenous  
 compounds in the chicken (Gallus domesticus).  
 AU Karasawa Y; Nakata C  
 CS Laboratory of Animal Nutrition and Feed Science, Faculty of Agriculture,  
 Shinshu University, Nagano-ken, Japan.

SO COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. B: COMPARATIVE BIOCHEMISTRY,  
(1988) 91 (4) 789-92.  
Journal code: DNV; 2984/30P. ISSN: 0305-0491.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198903  
ED Entered STN: 19900306  
Last Updated on STN: 19980206  
Entered Medline: 19890330

L18 ANSWER 46 OF 320 MEDLINE  
AN 89066362 MEDLINE  
DN 89066362 PubMed ID: 3254597  
TI Effects of corticosteroid **treatment** on survival time in dogs  
with chronic hepatitis: 151 cases (1977-1985).  
CM Comment in: J Am Vet Med Assoc. 1989 Jan 15;194(2):164  
AU Strombeck D R; Miller L M; Harrold D  
CS Department of Medicine, School of Veterinary Medicine, University of  
California, Davis 95616.  
SO JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION, (1988 Nov 1) 193  
(9) 1109-13.  
Journal code: HAV; 7503067. ISSN: 0003-1488.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198901  
ED Entered STN: 19900308  
Last Updated on STN: 19900308  
Entered Medline: 19890118

L18 ANSWER 47 OF 320 MEDLINE  
AN 88147917 MEDLINE  
DN 88147917 PubMed ID: 3344727  
TI Venous, arterial, and arterialized-venous blood ammonia  
levels and their relationship to hepatic encephalopathy after  
propranolol.  
AU Snady H; Lieber C S  
CS Section of Liver Disease and Nutrition, Veterans Administration Medical  
Center, Bronx, New York.  
NC AA03508 (NIAAA)  
SO AMERICAN JOURNAL OF GASTROENTEROLOGY, (1988 Mar) 83 (3) 249-55.  
Journal code: 3HE; 0421030. ISSN: 0002-9270.  
CY United States  
DT (CLINICAL TRIAL)  
(CONTROLLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198804  
ED Entered STN: 19900308  
Last Updated on STN: 19970203  
Entered Medline: 19880407

L18 ANSWER 48 OF 320 MEDLINE  
AN 88137801 MEDLINE  
DN 88137801 PubMed ID: 3125077  
TI Enterococcus lactic acid bacteria strain SF68 and lactulose in hepatic

encephalopathy: a controlled study.  
 AU Loguercio C; Del Vecchio Bianco C; Coltorti M  
 CS Istituto di Medicina Generale e Metodologia Clinica, 1 Facolta di  
 Medicina  
 e Chirurgia, University of Naples, Italy.  
 SO JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, (1987 Nov-Dec) 15 (6) 335-43.

Journal code: E62; 0346411. ISSN: 0300-0605.  
 CY ENGLAND: United Kingdom  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 198804  
 ED Entered STN: 19900308  
 Last Updated on STN: 19950206  
 Entered Medline: 19880407

L18 ANSWER 49 OF 320 MEDLINE  
 AN 89086592 MEDLINE  
 DN 89086592 PubMed ID: 3693180  
 TI Muscle and blood ammonia and lactate responses to  
 prolonged exercise with hyperoxia.  
 AU Graham T E; Pedersen P K; Saltin B  
 CS August Krogh Institute, Copenhagen, Denmark.  
 SO JOURNAL OF APPLIED PHYSIOLOGY, (1987 Oct) 63 (4) 1457-62.  
 Journal code: HEG; 8502536. ISSN: 8750-7587.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 198802  
 ED Entered STN: 19900305  
 Last Updated on STN: 19970203  
 Entered Medline: 19880212

L18 ANSWER 50 OF 320 MEDLINE  
 AN 88081972 MEDLINE  
 DN 88081972 PubMed ID: 3319453  
 TI Lactitol, a second generation disaccharide for treatment of  
 chronic portal-systemic encephalopathy. A double-blind, crossover,  
 randomized clinical trial.  
 AU Uribe M; Toledo H; Perez F; Vargas F; Gil S; Garcia-Ramos G; Ravelli G P;  
 Guevara L  
 CS Gastrointestinal Division, Instituto Nacional de la Nutricion Salvador  
 Zubiran, Mexico, D.F.  
 SO DIGESTIVE DISEASES AND SCIENCES, (1987 Dec) 32 (12) 1345-53.  
 Journal code: EAD; 7902782. ISSN: 0163-2116.  
 CY United States  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals  
 EM 198802  
 ED Entered STN: 19900305  
 Last Updated on STN: 19950206  
 Entered Medline: 19880202

=> s l18 and xylcse?  
L19 0 L18 AND XYLOSE?

=> s l18 and xylobiose?  
L20 0 L18 AND XYLOBIOSE?

=> s l18 and carbohydrate?  
L21 2 L18 AND CARBOHYDRATE?

=> s l18 and sugar?  
L22 6 L18 AND SUGAR?

=> d l21 abs ibib 1-2

L21 ANSWER 1 OF 2 MEDLINE

AB Seven girls (age 5 to 10 years) with Rett syndrome were investigated extensively. In 6 patients elevations of blood pyruvate were found. Blood lactate levels were marginally elevated. Two patients had variably elevated blood glucose levels. Metabolic studies were otherwise normal apart from minimally elevated **blood ammonia** levels in 3 of 5 patients tested, 2 of whom were on valproic acid. All 7 patients had anticonvulsant resistant seizures. EEG changes included generalized slowing and multifocal spike wave discharges, and pseudo-periodic burst-suppression patterns during sleep. Respiratory monitoring revealed apneic episodes only during the waking record. Six patients were below

the 5th centile for weight despite normal caloric intake. **Treatment** with ketogenic diets, using medium chain triglyceride (MCT) oil when possible, has improved seizure control in the 5 patients who could tolerate the diet. Slight behavioral and motor improvement has occurred in these 5 patients and 6 of 7 patients on high fat diets have gained weight.

With a possible defect in **carbohydrate** metabolism and a difficult seizure disorder, use of a ketogenic diet is logical and appears

to produce clinical benefit in patients with Rett Syndrome.

ACCESSION NUMBER: 86239363 MEDLINE  
DOCUMENT NUMBER: 86239363 PubMed ID: 3087185  
TITLE: Therapeutic effects of a ketogenic diet in Rett syndrome.  
AUTHOR: Haas R H; Rice M A; Trauner D A; Merritt T A  
CONTRACT NUMBER: RR00827 (NCRR)  
SOURCE: AMERICAN JOURNAL OF MEDICAL GENETICS. SUPPLEMENT, (1986) 1  
225-46.  
Journal code: AJM; 8706133. ISSN: 1040-3787.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198606  
ENTRY DATE: Entered STN: 19900321  
Last Updated on STN: 19970203  
Entered Medline: 19860627

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AB Four diets, straw, straw + urea, straw + urea and sucrose, and straw + urea but with a different mineral supplement than fed with diets 1-3, were compared using rumen-fistulated cows. Urea or urea and sucrose were

dissolved in water and administered as continuous ruminal infusions. Increases of approx. 29% in dry matter digestibility and 17% cellulose digestibility were obtained with urea but not with urea sucrose. Bacterial protein in rumen fluid was increased by an av. of 63% by both urea and urea-sucrose **treatments**. Rumen NH<sub>3</sub> and blood urea levels were increased 10-fold and 3-fold, resp., by the urea infusion,

but

the response to urea-sucrose was only 50% as great. Sucrose appeared to be used as an energy source in preference to the straw, as indicated by the increased rate of urea utilization, but tended to depress intake and digestibility of straw as compared with urea only. Dry matter intake, N balance, and total short-chain fatty acids were not significantly altered by the **treatments**, but all showed response trends. Effects of dietary **treatments** on proportions of short-chain fatty acids in the rumen were not consistent.

ACCESSION NUMBER: 1973:84716 CAPLUS  
DOCUMENT NUMBER: 76:84716  
TITLE: Effects of ruminal infusions of urea and urea-sucrose on utilization of oat straw by cows  
AUTHOR(S): Winter, K. A.; Pigden, W. J.  
CORPORATE SOURCE: Res. Branch, Canada Dep. Agric., Ottawa, Ont., Can.  
SOURCE: Can. J. Anim. Sci. (1971), 51(3), 777-81  
CODEN: CMCJNAT  
DOCUMENT TYPE: Journal  
LANGUAGE: English

=> d 122 abs ibib 1-6

L22 ANSWER 1 OF 6 MEDLINE

AB BACKGROUND. Lactitol (beta-galactosido-sorbitol), a novel disaccharide analogue of lactulose, has been suggested as an alternative to lactulose in the **treatment** of portosystemic encephalopathy (PSE) in Western country. In order to assess its therapeutic effect and adverse reaction in PSE in the Chinese, we conducted this study. METHODS. Forty-one patients with PSE were enrolled in this study. Patients were randomly divided into 2 groups to receive lactitol (n = 21) or lactulose (n = 20) for 5 days. The doses of both drugs were adjusted to keep daily bowel movement of 2 to 3 times. The PSE index (mental state, EEG, asterixis, number connection test [NCT], and ammonia) was evaluated in each patient before and after **treatment**. Daily doses of lactitol and lactulose, stool frequency, and side effect were recorded. RESULTS. The mean dose of lactitol used was 66.3 +/- 36.4 gm and that of lactulose was 56.9 +/- 32.1 ml of lactulose. The majority of patients (37/41)

gained

clear consciousness after 5 days' **treatment**. In the lactitol group, blood ammonia, EEG, NCT, asterixis, mental status and PSE index before **treatment** were 208 +/- 62 micrograms/ml, 2.9 +/- 0.8, 4.0 +/- 0.0, 2.7 +/- 1.5, 2.9 +/- 0.7 and

77.1

./- 10.5, respectively. All parameters decreased significantly after 5 days' **treatment** (119 +/- 50 micrograms/ml, 1.1 +/- 1.0, 2.9 +/- 1.2, 1.7 +/- 1.1, 0.7 +/- 0.7, and 34.4 +/- 16.0, p < 0.05). The

lactulose

group had the similar results. However, the improvement of PSE index

after

therapy in the lactitol group was significantly higher than that in the lactulose group (42.7 +/- 19.3 vs 31.1 +/- 13.7, p < 0.05). In addition, more patients in the lactitol group than in the lactulose group (67% vs 20%, p = 0.003) favored the taste of their assigned drugs. No patient who

received lactitol experienced any side effects; however, six patients treated with lactulose complained of meteorism and flatulence, and four complained of nausea. CONCLUSIONS. Both lactitol and lactulose are effective in the **treatment** of PSE, though the effect of lactitol seems slightly superior to that of lactulose in our study. Lactitol is more acceptable to our patients due to better palatability and less side effects. Lactitol is another good alternative in the **treatment** of PSE.

ACCESSION NUMBER: 95227958 MEDLINE  
 DOCUMENT NUMBER: 95227958 PubMed ID: 7712392  
 TITLE: **Treatment** of porto-systemic encephalopathy with lactitol versus lactulose: a randomized controlled study.  
 AUTHOR: Pai C H; Huang Y S; Jeng W C; Chan C Y; Lee S D  
 CORPORATE SOURCE: Department of Medicine, Veterans General Hospital-Taipei, Taiwan, R.O.C.  
 SOURCE: CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1995 Jan) 55 (1) 31-6.  
 PUB. COUNTRY: Journal code: CHQ; 0005327. ISSN: 0578-1337.  
 TAIWAN: Taiwan, Province of China  
 (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199505  
 ENTRY DATE: Entered STN: 19950524  
 Last Updated on STN: 19950524  
 Entered Medline: 19950518

L22 ANSWER 2 OF 6 MEDLINE

AB To investigate the efficacy and the acceptability of different doses of lactitol in patients with subclinical hepatic encephalopathy, 28 patients with cirrhosis were enrolled in a controlled clinical trial comparing 5-month therapies with lactitol at two different doses: 0.3 and 0.5 g/kg bw per day. This period was followed by 1 month of recovery. Patients were monitored with venous **blood ammonia** determination, three psychometric tests, clinical evaluation of mental status and EEG. The porto-systemic encephalopathy index of Conn was determined periodically. Twenty-two patients completed the trial (11 for each dose of lactitol). Both doses of lactitol decreased plasma ammonia levels and improved the porto-systemic encephalopathy index. The higher dose was more effective in improving performance in the psychometric tests. After the period of recovery, both the porto-systemic encephalopathy index and the psychometric test scores returned to pretreatment values. Lactitol was tolerated well by patients. Three patients given the higher dose reported periodic intestinal discomfort, but did not stop taking lactitol or reduce the dosage; no side-effects were reported by the patients taking the lower dose. These results indicate that lactitol in doses ranging from 0.3 to 0.5 g/kg bw is a well-tolerated and effective **treatment** for subclinical encephalopathy.

ACCESSION NUMBER: 95213559 MEDLINE  
 DOCUMENT NUMBER: 95213558 PubMed ID: 7699233  
 TITLE: Effects of long-term administration of low-dose lactitol in

patients with cirrhosis but without overt encephalopathy.  
 Salerno F; Moser P; Maggi A; Vitaliani G; Benetti G  
 Istituto di Medicina Interna, Università di Milano,  
 Italy.  
 SOURCE: JOURNAL OF HEPATOLOGY, (1994 Dec) 21 (6) 1092-6.  
 Journal code: IBS; 8503886. ISSN: 0168-8278.  
 PUB. COUNTRY: Denmark  
 (CLINICAL TRIAL)  
 (CONTROLLED CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199505  
 ENTRY DATE: Entered STN: 19950510  
 Last Updated on STN: 19990129  
 Entered Medline: 19950503

L22 ANSWER 3 OF 6 MEDLINE  
 AB A double blind crossover trial was performed to test the therapeutic usefulness and safety of lactitol, a beta-galactoside sorbitol, against lactose in 18 patients with chronic portal-systemic encephalopathy (PSE). The study included four periods: two for washout and two for lactitol and lactose administration. During washout periods, which lasted two weeks each, patients were stabilized with neomycin plus milk of magnesia. Lactitol and lactose were administered during four weeks each. Ten patients were randomly assigned to receive lactose (group A) and eight patients to receive lactitol (group B) first. PSE parameters, ie, mental state, number connection test performance, asterixis and blood ammonia levels were assessed fortnightly. Electroencephalographic tracings and stool pHs were evaluated at the end of each study period. After the first administration of lactose and lactitol, no statistically significant differences in PSE parameters were found. At the same stage,  
 a significant stool acidification (P less than 0.05) was detected. It is concluded that lactitol seems to be safe and efficacious in treating patients with chronic PSE.

ACCESSION NUMBER: 88081972 MEDLINE  
 DOCUMENT NUMBER: 88081972 PubMed ID: 3319453  
 TITLE: Lactitol, a second-generation disaccharide for treatment of chronic portal-systemic encephalopathy. A double-blind, crossover, randomized clinical trial.  
 AUTHOR: Uribe M; Toledo H; Perez F; Vargas F; Gil S; Garcia-Ramos G; Ravelli G P; Guevara L  
 CORPORATE SOURCE: Gastrointestinal Division, Instituto Nacional de la Nutricion Salvador Zubiran, Mexico, D.F.  
 SOURCE: DIGESTIVE DISEASES AND SCIENCES, (1987 Dec) 32 (12) 1345-53.  
 Journal code: EAD; 7902782. ISSN: 0163 2116.  
 PUB. COUNTRY: United States  
 (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LANGUAGE: English  
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
 ENTRY MONTH: 198802  
 ENTRY DATE: Entered STN: 19900305  
 Last Updated on STN: 19950206  
 Entered Medline: 19880102

L22 ANSWER 4 OF 6 MEDLINE

AB Lactulose is currently the drug of choice for the **treatment** of hepatic encephalopathy. It is, however, only available as a syrup which is

contaminated with other **sugars**. Consequently patients may express aversion to its excessively sweet taste and many experience nausea

because of its hyperosmolarity. Lactitol is a disaccharide analogue of lactulose which can be produced as a pure crystalline powder with a low relative sweetness. Theoretically it should have the same therapeutic effects as lactulose but fewer side effects. Five patients with chronic hepatic encephalopathy on maintenance lactulose were monitored

clinically, psychometrically, and by measurement of venous blood ammonia, electroencephalogram mean cycle frequency, and cerebral blood flow during three months **treatment** with lactulose and a similar period on lactitol. Lactitol was at least as efficacious as lactulose but was more acceptable because its cathartic effect was more predictable, its formulation was more convenient and its less sweet taste preferred. Lactitol is the ideal successor to lactulose for **treatment** of this condition.

ACCESSION NUMBER: 85155704 MEDLINE  
DOCUMENT NUMBER: 85155704 PubMed ID: 3979914  
TITLE: Lactitol in the **treatment** of chronic hepatic encephalopathy: an open comparison with lactulose.  
AUTHOR: Lanthier P L; Morgan M Y  
SOURCE: GUT, (1985 Apr) 26 (4) 415-20.  
JOURNAL CODE: FVT; 2985108R. ISSN: 0017-5749.  
PUB. COUNTRY: ENGLAND: United Kingdom  
JOURNAL; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 198505  
ENTRY DATE: Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19850509

L22 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB Healthy young male subjects exercised to exhaustion on a bicycle ergometer

at a work load requiring approx. 75% of max. O uptake. This work test was performed after placebo administration or after ingestion of 6 g of K-Mg aspartate over a 24-h period, using a double-blind protocol. Exhaustion was reached after 82.7 min following aspartate **treatment** and after 85.4 min following the placebo. No differences in the blood glucose, lactate, or NH<sub>3</sub> or in the plasma free fatty acid concn. between the 2 **treatments** were obsd. The respiratory exchange ratio was the same on both occasions. Thus, no beneficial effect of oral aspartate administration on work capacity in man is obsd., and the metabolic processes that occur during exercise apparently are not influenced by

this

**treatment.**

ACCESSION NUMBER: 1983:502873 CAPLUS  
DOCUMENT NUMBER: 99:102873  
TITLE: The effects of oral administration of salts of aspartic acid on the metabolic response to prolonged exhausting exercise in man  
AUTHOR(S): Maughan, R. J.; Sadler, D. J. M.  
CORPORATE SOURCE: Dep. Surg., Univ. Med. Sch., Foresterhill/Aberdeen,



AB9 22D, UK  
 SOURCE: Int. J. Sports Med. (1983), 4(2), 119-23  
 CODEN: IJSMDA  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L22 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB The plasma ammonia concn. was pos. correlated to the severity of hepatic encephalopathy. A protein-rich (120 g protein/day) diet resulted in a 2-fold increase in **blood ammonia** and a 3-fold increase in serum phenols in patients with cirrhosis without portal hypertension, whereas a 2.5-fold increase in **blood ammonia** and a 4-fold increase in serum phenols was obsd. in patients with cirrhosis with portal hypertension when compared with normal values. Ethanol ingestion (60 g) caused transient hyperammonemia and hypertriglyceridemia in healthy subjects, whereas in patients with fatty liver, these elevations were prolonged. Ethanol withdrawal resulted in a rapid return of to previously elevated plasma ammonia and .gamma.-glutamyltransferase values to normal. Distaneurin decreased the elevated plasma ammonia, glucose, and lactate levels in patients with delirium tremens. Pathol. methionine degrdn. products were present in the serum and cerebrospinal fluid of liver cirrhosis patients and correlated with disease severity. Cysteine, taurine, and arom. amino acids were also increased in the serum and cerebrospinal fluid of hepatic coma patients. The toxic effects of the arom. amino acid metabolites and the **treatment** of hepatic encephalopathy is discussed.

ACCESSION NUMBER: 1979:521834 CAPLUS  
 DOCUMENT NUMBER: 91:121834  
 TITLE: Amino acids and their toxic metabolites in serum, cerebrospinal fluid and urine in hepatic encephalopathy  
 AUTHOR(S): Mueting, Dieter; Reikowski, Johanna  
 CORPORATE SOURCE: Heinz-Kalk-Klin. Inn. Med. Gastroenterol., Bad Kissingen, Fed. Rep. Ger.  
 SOURCE: Aminosaeuren, Ammoniak Hepatische Enzephalopathie, Int. Ammoniak-Symp., 3rd (1978), Meeting Date 1977, 9-21. Editor(s): Wewalka, Friedrich; Dragosics, Brigitte. Fischer: Stuttgart, Fed. Rep. Ger.  
 CODEN: 41FTA7  
 DOCUMENT TYPE: Conference  
 LANGUAGE: German

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